Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division

**Third and Final Bill**

# Quality Control Reports

# BOOK NO-03

## QC ABSTRACT

**NAME OF WORK:** Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division.

| SL NO | Item Of Work | Name of Test | Frequency of Test/Quantity | Executed Quantity | Number of Tests Required | Number of Tests Conducted |
|---|---|---|---|---|---|---|
| | | **Materials** | | | | |
| 1 | DBM | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | STRIPPING VALUE | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | IMPACT VALUE | One Test | | 1 | 1 |
| | | Specific gravity | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Marshal Stability | One Test | | 1 | 1 |
| | | Marshal flow | One Test | | 1 | 1 |
| | | Percent air Voids | One Test | | 1 | 1 |
| | | Percent Voids in mineral Aggregate | One Test | | 1 | 1 |
| | | Percent Voids filled with Bitumen | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Gradation | One Test | | 1 | 1 |
| 2 | BC | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | STRIPPING VALUE | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | IMPACT VALUE | One Test | | 1 | 1 |
| | | Specific gravity | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Marshal Stability | One Test | | 1 | 1 |
| | | Marshal flow | One Test | | 1 | 1 |
| | | Percent air Voids | One Test | | 1 | 1 |
| | | Percent Voids in mineral | One Test | | 1 | 1 |
| | | Percent Voids filled with Bitumen | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Gradation | One Test | | 1 | 1 |
| 3 | BITUMEN | Ductility | One Test | | 1 | 1 |
| | | Softening Point | One Test | | 1 | 1 |
| | | Penetration | One Test | | 1 | 1 |
| | | Flash Point | One Test | | 1 | 1 |
| | | Fire Point | One Test | | 1 | 1 |
| 4 | TACK COAT | Rate of spread | One Test | | 1 | 1 |

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## TEST RESULTS OF GRADATION FOR DBM
## (IS 2386:(Part 1) 1963 (RA2011)

| | | | |
|---|---|---|---|
| **Lab ID** | : | CP-RW-2022-01-06-06 | **Date: 17-12-21** |
| **Project Name** | : | Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division. | |
| **Agency** | : | M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010 | |
| **Customer Reference** | : | BBMP/EE/YNK.D/W.O/182/2019-20 | |
| **Date of Receipt** | : | 15-12-21 | |
| **Type of Mix** | : | DBM-Plant (Dense Bituminous Macadam) | |
| **Date of test** | : | 15-12-21 | |
| **Weight of Sample** | : | 5000 Grams | |

| IS Sieve Size (mm) | Weight Retained (gm) | Comulative Weight Retained (gm) | Comulative % of Retained | Comulative % of Passing | Specification Limits as per MORTH specification Table 500-10 (grading -2) |
|---|---|---|---|---|---|
| 37.5 | 0 | 0 | 0 | 100 | 100 |
| 26.5 | 172 | 172 | 3.44 | 96.6 | 90-100 |
| 19 | 1013 | 1185 | 23.70 | 76.3 | 71-95 |
| 13.2 | 520 | 1705 | 34.10 | 65.9 | 56-80 |
| 4.75 | 1150 | 2855 | 57.10 | 42.9 | 38-54 |
| 2.36 | 680 | 3535 | 70.70 | 29.3 | 28-42 |
| 0.3 | 950 | 4485 | 89.70 | 10.3 | 7-21 |
| 0.075 | 272 | 4757 | 95.14 | 4.9 | 2-8 |
| PAN | 243 | 5000 | 0.00 | 0 | 0 |

* The results obtained are satisfactory as per standard requirements.

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## PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

**Lab ID** : CP-RW-2022-01-06-06 **Date: 18-12-21**

**Project Name** : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division.

**Agency** : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

**Customer Reference** : BBMP/EE/YNK.D/W.O/182/2019-20

**Date of Receipt** : 15-12-21

**Type of Mix** : DBM (Dense Bituminous Macadam)

**Date of test** : 15-12-21

**Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam**

| Property | Test | Result | Specification | Method of Test |
|---|---|---|---|---|
| Partical Shape | Flakiness Index | 14.1 | Combined Flakiness & Elongation Index for DBM is Maximum 35% | IS:2386 Part I |
| | Elongation Index | 13.2 | | |
| Strength | Aggregate Impact Value | 20.2 | Maximum 30% | IS:2386 Part IV |
| Specific gravity | Specific gravity | 2.6 | Maximum 2.7 | IS:2386 Part III |
| Water Absorption | Water Absorption | 1.4 | Maximum 2% | IS:2386 Part III |

* The results obtained are satisfactory as per standard requirements.

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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# TESTS RESULTS ON STABILITY OF MIX

**Lab ID** : CP-RW-2022-01-06-06 **Date: 18-12-21**

**Project Name** : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division.

**Agency** : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

**Customer Reference** : BBMP/EE/YNK.D/W.O/182/2019-20

**Date of Receipt** : 15-12-21

**Type of Mix** : DBM (Dense Bituminous Mecadam)

**Date of test** : 15-12-21

**The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow**

| SLNo | Particulars of observations | TEST 1 | TEST 2 | Secified limits as per MORTH specification table 500-11 |
|---|---|---|---|---|
| 1 | Marshal Stability at 60°C, KN | 11.29 | 11.82 | 9KN(Min) |
| 2 | Marshal flow at 60°C, mm | 3.54 | 3.87 | 2-4 |
| 3 | Percent air Voids | 4.56 | 4.17 | 3-5 |
| 4 | Percent Voids in mineral Aggregate(VMA %) | 14.54 | 14.76 | 13-15 |
| 5 | Percent Voids filled with Bitumen(VFB %) | 68.98 | 70.28 | 65-75 |
| 6 | Density, g/cc | 2.42 | 2.40 | – |

* The results obtained are satisfactory as per standard requirements.

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## TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
## (IS 2386:(Part 1) 1963 (RA2011)

**Lab ID** : CP-RW-2022-01-06-06 **Date: 21-12-21**

**Project Name** : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division.

**Agency** : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

**Customer Reference** : BBMP/EE/YNK.D/W.O/182/2019-20

**Date of Receipt** : 20-12-21

**Type of Mix** : DBM (Dense Bituminous Macadam)

**Date of test** : 20-12-21

| SLno | Description | Index | Trail 1 | Trail 2 |
|---|---|---|---|---|
| 1 | Weight of the Sample | A | 501 | 501 |
| 2 | Weight of the sample After extraction | B | 477 | 478 |
| 3 | Bitumen percentage | $\frac{A-B}{A} \times 100$ | 4.8 | 4.6 |
| 4 | Average percentage | % | 4.7 | |

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## TEST RESULTS OF GRADATION FOR BC
## IS 2386 (Part 1) 1963 (RA 2007 )

**Lab ID** : CP-RW-2022-01-06-06 **Date: 23-12-21**

**Project Name** : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division.

**Agency** : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

**Customer Reference** : BBMP/EE/YNK.D/W.O/182/2019-20

**Date of Receipt** : 21-12-21

**Type of Mix** : BC-Plant (Bituminous Concrete)

**Date of test** : 21-12-21

**Oven Dry Weight** : 5000 Grams

| IS Sieve Size (mm) | Weight Retained (gm) | Comulative Weight Retained (gm) | Comulative % of Retained | Comulative % of Passing | Secified limits as per MORTH specification table 500-17(grading-2) |
|---|---|---|---|---|---|
| 19 | 0 | 0 | 0.0 | 100.0 | 100 |
| 13.2 | 200 | 200 | 4.0 | 96.0 | 90-100 |
| 9.5 | 750 | 950 | 19.0 | 81.0 | 70-88 |
| 4.75 | 1150 | 2100 | 42.0 | 58.0 | 53-71 |
| 2.36 | 450 | 2550 | 51.0 | 49.0 | 42-58 |
| 1.18 | 400 | 2950 | 59.0 | 41.0 | 34-48 |
| 0.6 | 550 | 3500 | 70.0 | 30.0 | 26-38 |
| 0.3 | 550 | 4050 | 81.0 | 19.0 | 18-28 |
| 0.15 | 150 | 4200 | 84.0 | 16.0 | 12-20 |
| 0.075 | 544 | 4744 | 94.9 | 5.1 | 4-10 |
| PAN | 256 | 5000 | 100 | 0.0 | 0 |

* The results obtained are satisfactory as per standard requirements.

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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# TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

**Lab ID** : CP-RW-2022-01-06-06 **Date: 24-12-21**

**Project Name** : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division.

**Agency** : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

**Customer Reference** : BBMP/EE/YNK.D/W.O/182/2019-20

**Date of Receipt** : 21-12-21

**Type of Mix** : BC(Bitumenous Concrete)

**Date of test** : 21-12-21

**Type of Binder** : 60/70

**% of Binder Used** : 5.0%

**Weight of Aggregate** : 200.0 gm

**Weight of Binder** : 10.0 gm

**Temperature of water bath** : 40°C

| No of test | Retained Stripping Percentage | Stripping Percentage | Average Retained Stripping Percentage | Secified limits as per MORTH specification table 500-8 |
|---|---|---|---|---|
| 1 | 97.6 | 2.4 | 97.2 | Minimum Retained Coating 95% |
| 2 | 96.1 | 3.9 | | |
| 3 | 98.0 | 2.0 | | |

* The results obtained are satisfactory as per standard requirements.

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# PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2022-01-06-06** |
| **Project Name** | : | Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division. **Date: 24-12-21** |
| **Agency** | : | M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010 |
| **Customer Reference** | : | BBMP/EE/YNK.D/W.O/182/2019-20 |
| **Date of Receipt** | : | 21-12-21 |
| **Type of Mix** | : | BC (Bituminous Concrete) |
| **Date of test** | : | 21-12-21 |

**Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete**

| Property | Test | Result | Specification | Method of Test |
|---|---|---|---|---|
| Partical Shape | Flakiness Index | 15.0 | Combined Flakiness & Elongation Index for BC is Maximum 35% | IS 2386 Part I |
| | Elongation Index | 12.7 | | |
| Strength | Aggregate Impact Value | 22.5 | Maximum 24% | IS:2386 Part IV |
| Specific gravity | Specific gravity | 2.37 | Maximum 2.7 | IS:2386 Part III |
| Water Absorption | Water Absorption | 0.05 | Maximum 2% | IS:2386 Part III |

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

## TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
## IS 2386 (Part 1) 1963 (RA 2011 )

| | | |
|---|---|---|
| **Lab ID** | : | CP-RW-2022-01-06-06 |
| | | **Date: 29-12-21** |
| **Project Name** | : | Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division. |
| **Agency** | : | M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010 |
| **Customer Reference** | : | BBMP/EE/YNK D/W O/182/2019-20 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Date of Receipt** | : | 28-12-21 |
| **Type of Mix** | : | BC (Bituminous Concrete) |
| **Date of test** | : | 28-12-21 |

| SLno | Description | Index | Trail 1 | Trail 2 |
|---|---|---|---|---|
| 1 | Weight of the Sample | A | 500 | 500 |
| 2 | Weight of the sample After extraction | B | 473 | 475 |
| 3 | Bitumen percentage | $\frac{A-B}{A} \times 100$ | 5.40 | 5.00 |
| 4 | Average percentage | % | 5.2 | |

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

# TEST REPORT ON BITUMEN

**Date: 15-12-21**

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2022-01-06-06** |
| **Project Name** | : | Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division. |
| **Agency** | : | M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/W.O/182/2019-20 |
| **Date of Receipt** | : | 13-12-21 |
| **Sample Type** | : | Bitumen |
| **Reference to BIS codes** | : | IS: 1201-1220(1978) (Reaffirmed-2004) |
| **Date of test** | : | 13-12-21 |

## Test Results

| Sl.no | Name of Test | Result | Requirements as per IS:73-2013 |
|---|---|---|---|
| 1 | Penetration at 25°C , in 1/10th mm | 68 | 60 to 70 |
| 2 | Softening Point, °C | 49.6 | Min. 40°C |
| 3 | Ductility, cm | 92 | Min. 75cm |
| 4 | Flash point, °C | 322 | Min. 220°C |
| | Fire point, °C | 345 | |

* The results obtained are satisfactory as per standard requirements.

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## DETERMINATION OF RATE OF SPREAD TACK COAT

**Lab ID** : CP-RW-2022-01-06-06 **Date: 29-12-21**

**Project Name** : Asphating to Sainagara Phase-II and Bestcounty-III and Surrounding Areas in Ward No -03 Yelahanka Satellite Town Sub Division.

**Agency** : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

**Customer Reference** : BBMP/EE/YNK.D/W.O/182/2019-20

**Date of Receipt** : 28-12-21

**Type of Mix** : Tack coat

**Date of test** : 28-12-21

| SLNo | Determination | Unit | TEST 1 | TEST 2 |
|---|---|---|---|---|
| 1 | Size of Plate (mxm) | Mt | 0.30 x 30 | 0.30 x 30 |
| 2 | Area of Plate (a) | Sq.mtr | 0.09 | 0.09 |
| 3 | Initial Wt of empty Plate (b) | Kg | 0.78 | 0.748 |
| 4 | Final weight of plate after application of tack Coat (c) | Kg | 0.803 | 0.771 |
| 5 | Weight of tack Coat (d=c-b) | Kg | 0.023 | 0.023 |
| 6 | Rate of spread of tack coat | Kg/sq m | 0.256 | 0.256 |
| 7 | Average | Kg/sq m | 0.256 | |
| 8 | Specified Limit | Kg/sq m | 0.250 Kg/sq m | |

* The results obtained are satisfactory as per standard requirements.

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